

Title (en)

METHOD AND SYSTEM FOR SINGLE-CELL BIOPHYSICAL PROFILING USING A MICROFLUIDIC DEVICE

Title (de)

VERFAHREN UND SYSTEM ZUR BIOPHYSIKALISCHEN EINZELZELLENPROFILIERUNG UNTER VERWENDUNG EINER MIKROFLUIDISCHEN VORRICHTUNG

Title (fr)

PROCÉDÉ ET SYSTÈME DE PROFILAGE BIOPHYSIQUE MONOCELLULAIRE À L'AIDE D'UN DISPOSITIF MICROFLUIDIQUE

Publication

EP 4347128 A2 20240410 (EN)

Application

EP 22811749 A 20220527

Priority

- SG 10202105682R A 20210528
- SG 2022050362 W 20220527

Abstract (en)

[origin: WO2022250617A2] Various embodiments relate to optics-free methods for label-free profiling of cells in a sample, in particular white blood cells, such as neutrophils, by using a microfluidic device specifically designed for said purpose. In particular, various embodiments relates to multi-parametric biophysical profiling of neutrophils in a sample by using a microfluidic impedance-deformability cytometry device specifically designed for said purpose.

IPC 8 full level

B01L 3/00 (2006.01); **G01N 15/10** (2024.01)

CPC (source: EP US)

G01N 15/1031 (2013.01 - EP); **G01N 15/132** (2024.01 - US); **G01N 33/48728** (2013.01 - EP US); **B01L 3/502761** (2013.01 - EP); **B01L 3/502776** (2013.01 - EP); **G01N 2015/1006** (2013.01 - EP US); **G01N 2015/1022** (2024.01 - EP); **G01N 2015/1029** (2024.01 - EP); **G01N 2015/103** (2024.01 - EP); **G01N 2015/133** (2024.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022250617 A2 20221201; **WO 2022250617 A3 20230119**; EP 4347128 A2 20240410; US 2024248074 A1 20240725

DOCDB simple family (application)

SG 2022050362 W 20220527; EP 22811749 A 20220527; US 202218564484 A 20220527